Comparisons of Job Characteristics

Focus Occupation: Electrical and Electronics Repairers, Powerhouse, Substation, and

Relay (49-2095)

Associated Occupation: Electricians (47-2111)

Compare Knowledge
Compare Skills
Compare Abilities
Compare Detailed Work Activities
Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 84

Focus Occupation: Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095)

Associated Occupation: Electricians (47-2111)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation	
Mechanical	6.8	16.5	17.1	0	Current knowledge level may be sufficient	
Building and Construction	4.0	14.6	8.4	<<	Extensive education and/or training may be required	
Mathematics	9.2	14.5	12.2	<	Expanded education and/or training may be required	
Design	5.2	13.4	13.2	0	Current knowledge level may be sufficient	
Administration and Management	8.4	12.2	6.8	<<	Extensive education and/or training may be required	
Engineering and Technology	5.7	11.8	9.3	<	Expanded education and/or training may be required	
Physics	4.3	10.9	10.1	0	Current knowledge level may be sufficient	
Telecommunications	3.9	10.4	10.0	0	Current knowledge level may be sufficient	

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 7

Focus Occupation: Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095) Associated Occupation: Electricians (47-2111)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Troubleshooting	4.5	12.3	10.7	A higher skill level may be required
Repairing	3.4	11.6	11.1	Current skill level may be sufficient
Quality Control Analysis	5.9	11.0	10.2	Current skill level may be sufficient
Equipment Maintenance	3.5	10.3	11.4	Skill level is likely sufficient

Installation	1.7	9.4	2.1	Extensive development of skills in this area may be required
Equipment Selection	3.3	8.4	5.6	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 87

Focus Occupation: Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095) Associated Occupation: Electricians (47-2111)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Visual Color Discrimination	6.4	12.8	9.3	Extensive improvement in abilities may be required	
Visualization	7.5	12.2	10.1	Some improvement in abilities may be required	
Finger Dexterity	7.6	11.8	9.8	Some improvement in abilities may be required	
Extent Flexibility	4.8	10.4	6.4	Extensive improvement in abilities may be required	
Gross Body Equilibrium	3.2	8.2	4.4	Extensive improvement in abilities may be required	
Speed of Limb Movement	3.2	6.6	2.9	Extensive improvement in abilities may be required	
Glare Sensitivity	2.6	5.9	3.2	Extensive improvement in abilities may be required	
Sound Localization	2.2	5.3	2.4	Extensive improvement in abilities may be required	

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 91

Focus Occupation: Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095) Associated Occupation: Electricians (47-2111)

Work Activities	Exclusivity of Activity
Analyze operation of malfunctioning electrical or electronic equipment	68
Distinguish colors	44
Fabricate, assemble, or disassemble manufactured products by hand	11
Install electrical fixtures or components	71
Install lead-in wires to control boxes and other components	89
Install or replace meters, regulators, or related measuring or control devices	66
Install/connect electrical equipment to power circuit	57
Maintain electrician's tools or equipment	92

Perform safety inspections in industrial, manufacturing or repair setting	32
Prepare reports	8
Read blueprints	10
Read tape measure	41
Read technical drawings	7
Repair or adjust measuring or control devices	71
Repair or replace electrical wiring, circuits, fixtures, or equipment	49
Replace electronic components	63
Solder electrical or electronic connections or components	55
Test electrical/electronic wiring, equipment, systems or fixtures	54
Test electronic or electrical circuit connections	66
Understand service or repair manuals	40
Use electrical or electronic test devices or equipment	40
Use hand or power tools	2
Use high voltage apparatus	76
Use interpersonal communication techniques	10
Use measuring devices in construction or extraction work	41
Use soldering equipment	44
Use voltmeter, ammeter, or ohmmeter	52

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: n/a

Focus Occupation: Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095) Associated Occupation: Electricians (47-2111)

Tools and Technologies	Exclusivity
Tools and technology data is unavailable for one or both occupations	

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.